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Amendments to the Claims:

Listing of Claims

- 1. (Original) A method for reducing levels of residual halogen and Group IIIb metals in a crude $poly(\alpha$ -olefin) polymerized in the presence of a catalyst comprising the halogen and Group IIIb metals, wherein the method comprises:
 - A) washing the crude poly(α -olefin) with water;
 - B) separating the aqueous and organic phases;
- C) then adding an adsorbent selected from the group consisting of magnesium silicates, calcium silicates, aluminum silicates, aluminum oxides, and clays to the organic phase to form a slurry;
- D) heating the slurry under reduced pressure at a temperature of at least about 180° C for at least about thirty minutes; and then
 - E) separating the adsorbent from the slurry.
- 2. (Original) The method of claim 1 wherein the halogen is selected from the group consisting of chlorine, bromine, and mixtures thereof.
- 3. (Original) The method of claim 2 wherein the halogen is bromine.
- 4. (Original) The method of claim 1 wherein the Group IIIb metal is aluminum
- 5. (Original) The method of claim 1 wherein the adsorbent is a magnesium silicate.

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- 6. (Original) The method of claim 1 wherein the heating step is continued for at least about 90 minutes.
- 7. (Original) The method of claim 1 wherein the heating step is continued for at least about 180 minutes.
- 8. (Original) The method of claim 1 wherein the adsorbent is employed at a level of at least about 0.4 eq. metal/ eq. halogen.
- 9. (Original) The method of claim 1 wherein the adsorbent is separated from the slurry by filtration.
- 10. (Original) A method for reducing levels of residual bromine and aluminum in a crude $poly(\alpha$ -olefin) polymerized in the presence of a catalyst comprising the bromine and aluminum, wherein the method comprises:
 - A) washing the crude $poly(\alpha$ -olefin) with water;
 - B) separating the aqueous and organic phases;
- C) then adding about 0.4 eq. Mg/ eq. halogen of a magnesium silicate to the organic phase to form a slurry;
- D) heating the slurry under reduced pressure at a temperature of at least about 180° C for at least about ninety minutes; and then
 - E) filtering the magnesium silicate from the slurry.

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- 11. (Previously Presented) A method for reducing levels of residual halogen and Group IIIb metals in a crude poly(α -olefin) polymerized in the presence of a catalyst comprising the halogen and Group IIIb metals, wherein the method comprises:
 - A) washing the crude poly(α -olefin) with water;
 - B) separating the aqueous and organic phases;
- C) then adding an adsorbent selected from the group consisting of magnesium silicates, calcium silicates, and aluminum silicates to the organic phase to form a slurry;
- D) heating the slurry under reduced pressure at a temperature of at least about 180° C for at least about thirty minutes; and then
 - E) separating the adsorbent from the slurry.
- 12. (Previously Presented) The method of claim 11 wherein the halogen is selected from the group consisting of chlorine, bromine, and mixtures thereof.
- 13. (Previously Presented) The method of claim 12 wherein the halogen is bromine.
- 14. (Previously Presented) The method of claim 11 wherein the Group IIIb metal is aluminum
- 15. (Previously Presented) The method of claim 11 wherein the adsorbent is a magnesium silicate.

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- 16. (Previously Presented) The method of claim 11 wherein the heating step is continued for at least about 90 minutes.
- 17. (Previously Presented) The method of claim 11 wherein the heating step is continued for at least about 180 minutes.
- 18. (Previously Presented) The method of claim 11 wherein the adsorbent is employed at a level of at least about 0.4 eq. metal/ eq. halogen.
- 19. (Previously Presented) The method of claim 11 wherein the adsorbent is separated from the slurry by filtration.
- 20. (Previously Presented) The method of claim 14 wherein the adsorbent is a magnesium silicate.